



## STEVAL-CCA007V1

Demonstration board for the  
TS2012 filter-free stereo 2x2.8W class D audio power amplifier

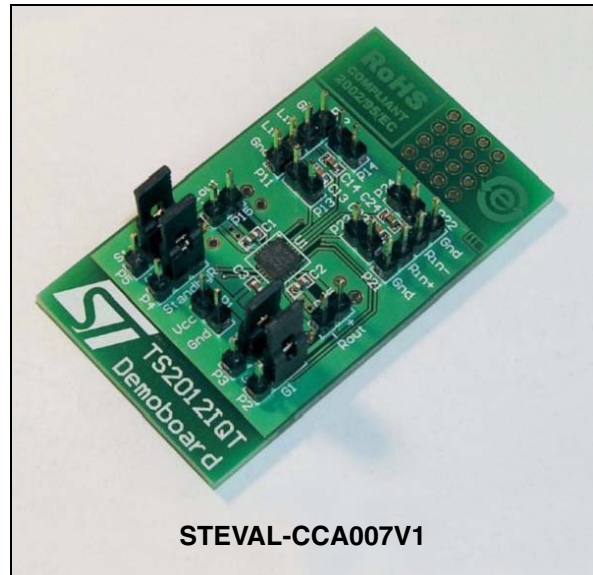
Data Brief

### Features

- Operating range from  $V_{CC} = 2.5\text{ V}$  to  $5.5\text{ V}$
- Standby mode active low
- Output power per channel:  $1.35\text{ W}$  at  $5\text{ V}$  or  $0.68\text{ W}$  at  $3.6\text{ V}$  into  $8\ \Omega$  with 1% THD+N max
- Output power per channel:  $2.2\text{ W}$  at  $5\text{ V}$  into  $4\ \Omega$  with 1% THD+N max
- Four gain select settings: 6, 12, 18, 24 dB
- Low current consumption
- PSRR: 70 dB typ at 217 Hz with 6 dB gain
- Fast start-up phase: 1 ms
- Thermal shutdown protection
- QFN20 4x4 mm lead-free package

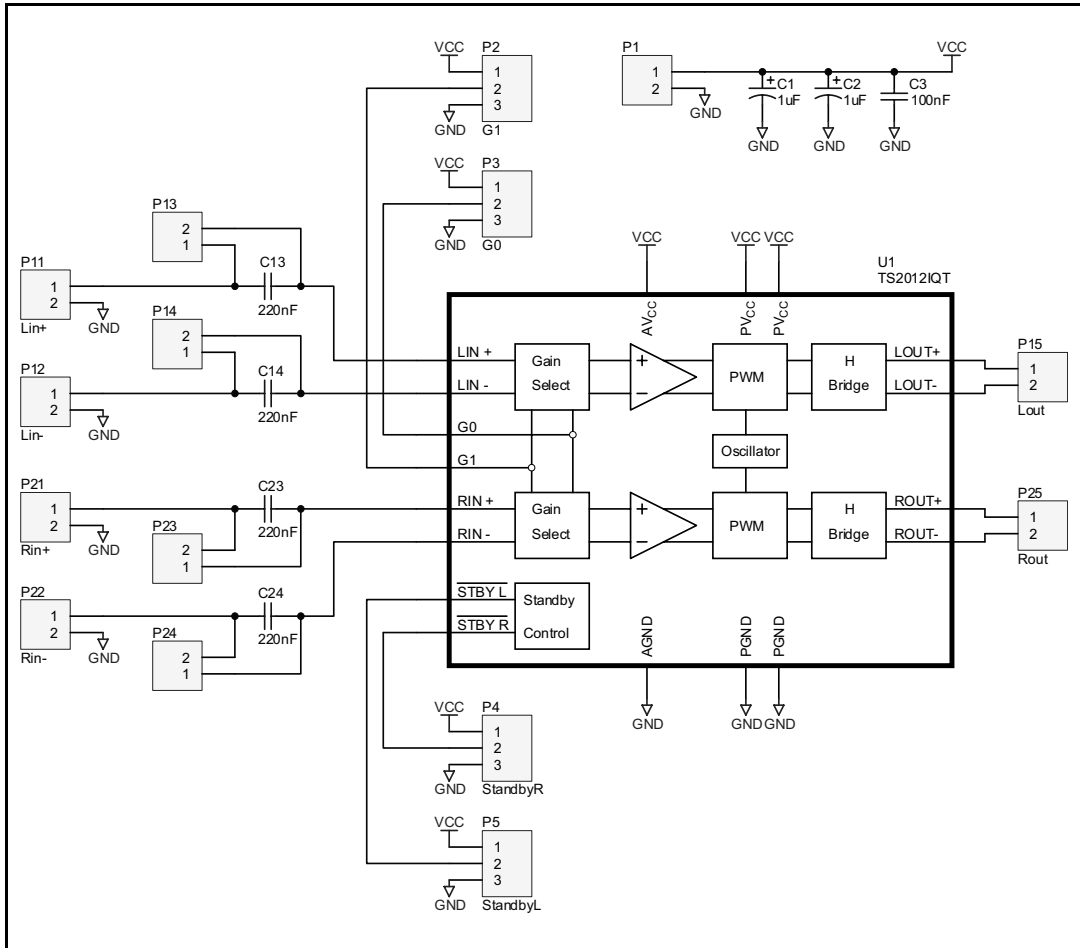
### Description

This demonstration board is designed for evaluation of the TS2012, a fully differential class D stereo power amplifier. The TS2012 device is housed in a QFN package and mounted on a two-layer PCB with a copper area acting as a heatsink. Easily accessible connectors on the board allow changing or driving gain select pins (G0 and G1) and standby control pins. It is also possible to change the input configuration of the TS2012.



# 1 Schematic

Figure 1. Schematic diagram



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-May-2008	1	Initial release.

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